

Appl. No. 08/877,999 Amdt. dated October 8, 2004 Reply to Office action of April 8, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Canceled).

Claim 2 (Cancelled).

Claim 3 (Cancelled).

Claim 4 (Cancelled).

Claim 5. Cancelled

Claim 6 (Cancelled).

Claim 7 (Currently Amended). The ~~supramolecular self-~~
~~assemblies~~ multimolecular micelle of claim [[6]]20, wherein;
said hydrophobic vinyl compound is at least one compound
selected from the group consisting of acrylates, acrylamides,

Appl. No. 09/877,999 Amdt. dated October 8, 2004 Reply to Office action of April 8, 2004

alkylacrylates, alkylacrylamides, arylacrylates and
arylacrylamides.

Claim 8 (Currently Amended)). The ~~supramolecular self-~~
~~assemblies~~ multimolecular micelle of claim 7, wherein:

said hydrophobic compound includes at least one aliphatic
or aromatic moiety selected from the group consisting of
methacrylates and methacrylamides.

Claim 9 (Currently Amended). The ~~supramolecular self-~~
~~assemblies~~ multimolecular micelle of claim [[6]] 7, wherein:

said hydrophobic compound is at least one vinyl-terminated
biodegradable polyester.

Claim 10 (Canceled).

Claim 11 (Cancelled).

Claim 12 (Cancelled).

Claim 13 (Currently Amended). The ~~supramolecular self-~~
~~assemblies~~ multimolecular micelle of claim [[12]] 20, wherein:

Appl. No. 09/877,989 Amdt. dated October 8, 2004 Reply to Office action of April 8, 2004

said hydrophilic ~~compound~~ block is at least one ~~compound~~ repeating unit selected from the group consisting of acrylates, acrylamides, alkylacrylates, alkylacrylamides, [[and]] N-vinyl-2-pyrrolidones, ethylene glycol and ethylene oxide.

Claim 14 (Currently Amended). The ~~supramolecular self-assemblies~~ multimolecular micelles of claim [[2]] 13, wherein:

said hydrophilic block originates from a macroinitiator based on poly(ethylene glycol) or poly(N-vinyl-2-pyrrolidone).

Claim 15 (Cancelled).

Claim 16 (Cancelled).

Claim 17 (Cancelled).

Claim 18 (Cancelled).

Claim 19 (Cancelled).

Claim 20 (New). Multimolecular micelles consisting essentially of polyelectrolyte copolymers comprising at least

Appl. No. 09/577,999 Amdt. dated October 8, 2004 Reply to Office action of April 8, 2004

one ionizable or charged but hydrophobic block composed of ionizable or charged repeating monomers in combination with nonionic hydrophobic repeating monomers; and at least one hydrophilic block, wherein said hydrophilic block comprises a polyethylene glycol or is synthesized from at least one hydrophilic vinyl monomer;

wherein the ionizable or charged repeating monomers include at least one compound selected from the group consisting of alkylacrylic acid derivatives, acrylic acid derivatives, aminoalkylacrylate derivatives, and (amino alkyl) alkylacrylate derivatives, and wherein the non-ionic hydrophobic repeating monomers include a hydrophobic vinyl compound.

Claim 21. (New) The multimolecular micelles of claim 20 wherein said polyelectrolyte copolymer is a graft copolymer having grafted hydrophilic and non-ionic oligomers or polymers formed from distinct monomers including at least one ionizable or charged unit composed of ionizable or charged repeating monomers in combination with distinct monomers which include nonionic hydrophobic repeating monomers, wherein said grafted hydrophilic and non-ionic oligomers or polymers are a polyethylene glycol or are synthesized from at least one hydrophilic vinyl monomer, wherein the ionizable or charged

Appl. No. 09/877,999 Amdt. dated October 8, 2004 Reply to Office action of April 8, 2004

repeating units include at least one compound selected from the group consisting of alkylacrylic acid derivatives, acrylic acid derivatives, aminoalkylacrylate derivatives, and (amino alkyl) alkylacrylate derivatives, and wherein the non-ionic hydrophobic repeating units include a hydrophobic vinyl compound.

Claim 22 (New). The multimolecular micelle of claim 21, wherein;

said hydrophobic vinyl compound is at least one compound selected from the group consisting of acrylates, acrylamides, alkylacrylates, alkylacrylamides, arylacrylates and arylacrylamides.

Claim 23 (New). The multimolecular micelle of claim 22, wherein:

said hydrophobic vinyl compound includes at least one aliphatic or aromatic moiety selected from the group consisting of methacrylates and methacrylamides.

Claim 24 (New). The multimolecular micelle of claim 22, wherein:

said hydrophobic vinyl compound is at least one vinyl-terminated biodegradable polyester.

Appl. No. 09/877,999 Amdt. dated October 8, 2004 Reply to Office action of April 8, 2004

Claim 25. (New) The multimolecular micelle of claim 21,
wherein:

said hydrophilic vinyl monomer is at least one compound
selected from the group consisting of acrylates, acrylamides,
alkylacrylates, alkylacrylamides, and N-vinyl-2-pyrrolidones.